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THEORETICAL PROBABILITY #2

Directions : Find the <i>theoretical probability</i> of each of the events described below. First, figure out the total num of possible <i>outcomes</i> . Then, determine how many times your <i>desired event</i> could happen. The theoretical probab of an event, or P (Event) is written as a fraction: desired event/total possible outcomes . If possible, reduce all o your fractions to lowest terms.	bility
Example : Sophia had a six-sided number cube. Each side was labeled with one number, from 1 through 6. What the probability that Sophia rolls a two?	at is
Total possible outcomes: 6 Number of two's: 1 P (Rolling a two): 1/6	
1) Jacob had a six-sided number cube. Each side was labeled with one number, from 1 through 6. What is the probability that Jacob rolls a four?	
Total possible outcomes: Number of fours: P (Rolling a four):	
2) Emily was playing a board game that had a spinner with six equal-sized sections. Three of the sections were two sections were blue, and one section was yellow. Find the probability that she landed on a blue section.	red,
Total possible outcomes: Number of blues: P (Spinning blue):	
3) Michael wanted to pick a card randomly from a regular deck of 52 cards. The deck is divided evenly into red black cards. What is the probability that Michael draws a black card?	l and
Total possible outcomes: Number of black cards: P (Black card):	_
4) Madison's mom wrote the names of every day of the week on separate pieces of paper. Then she put the paper in a hat. Madison would have to clean her room on the day that she blindly picked from the hat. What is the probability that Madison will clean her room on a day that starts with the letter 'T'?	ers
Total possible outcomes: Number of days starting with 'T': P (Days starting with 'T'):	
5) Matthew went to the carnival and played a game that had a bucket filled with balls numbered 1-10? He wins game if he chooses a number that is a multiple of 3. What is the probability that Matthew wins the game?	the
Total possible outcomes: Number of multiples of 3: P (Multiple of 3):	
6) Hannah was trying to guess the month of her brother's birthday? She knew that the month had less than five letters in its name. What is the probability that Hannah guesses the correct month?	

Total possible outcomes: _____ Number w/ less than 5 letters: _____ P (< 5 letters): _____

THEORETICAL PROBABILITY #1

,	robability that she chose an odd-number	red aisle?
Total possible outcomes:	Odd numbered aisles:	P (Odd aisle):
8) Daniel had a six-sided number probability that Jacob rolls a num		e number, from 1 through 6. What is the
Total possible outcomes:	Number of sides < 5:	P (Less than 5):
,		-sized sections. Three of the sections were ability that he landed on a purple section.
Total possible outcomes:	Number of purples:	P (Spinning Purple):
· •	randomly from a regular deck of 52 caere jokers. What is the probability that	ards. Fifty of the cards were regular playing Grace picks a joker?
Total possible outcomes:	Number of jokers:	P (Picking a joker):
	for dessert on the day that she blindly p	e pieces of paper. Then she put the papers in picked from the hat. What is the probability
Total possible outcomes:	Number of 6-letter days:	P (6-letter day):
*	nd played a game that had a bucket fille is divisible by four. What is the proba	ed with balls numbered 1-10? He wins the ability that David wins the game?
Total possible outcomes:	Numbers divisible by 4:	P (Divisible by 4):
13) Alex was trying to guess the 'J'. What is the probability that A	_	knew that the month started with the letter
Total possible outcomes:	Months starting w/ 'J':	P (Starts with 'J'):
*	pick up some candy. The store had 12 he probability that she chose an aisle the	2 aisles. Ashley randomly picked an aisle to hat is a factor of 24?
Total possible outcomes:	# of factors of 24:	P (Factor of 24):